

What is claimed is:

1. A system comprising:
a computer having a housing;
a short-range transceiver operatively connected to the computer;
a handsfree voice communications device unit in communication with the short-range transceiver;
the computer adapted to receive voice sound information from the short-range transceiver; and
the computer adapted to send voice sound information to the short-range transceiver.
2. The system of claim 1 wherein the handsfree voice communications unit is a headset.
3. The system of claim 1 wherein the handsfree voice communications unit is an earpiece.
4. The system of claim 1 wherein the handsfree voice communication unit includes a bone conduction sensor.
5. The system of claim 1 wherein the handsfree voice communication unit includes an air conduction sensor.
6. The system of claim 1 wherein the handsfree voice communication unit includes both an air conduction sensor and a bone conduction sensor.
7. The system of claim 3 wherein the earpiece is smaller in size than an interior of an external auditory canal of a user whereby the earpiece does not block the external auditory canal.

8. The system of claim 3 wherein the earpiece includes a bone conduction sensor.

9. The system of claim 3 wherein the handsfree voice communications unit includes an air conduction sensor and a bone conduction sensor.

10. The system of claim 3 wherein the handsfree voice communications unit includes an air conduction sensor.

11. The system of claim 1 wherein the short-range transceiver is disposed within the housing of the computer.

12. The system of claim 10 further comprising an antenna electrically connected to the short-range transceiver at least partially extending beyond the housing.

13. The system of claim 1 further comprising a voice transceiver operatively connected to the computer, the computer adapted to receive voice sound information from the voice transceiver and the computer adapted to send voice sound information to the voice transceiver.

14. The system of claim 13 wherein the voice transceiver is disposed within the housing of the computer.

15. The system of claim 13 further comprising an antenna electrically connected to the voice transceiver at least partially extending beyond the housing.

16. The system of claim 13 wherein the short-range transceiver and the voice transceiver are disposed within the housing.

17. The system of claim 13 wherein the voice transceiver is contained within a removable telephone transceiver module.

18. The system of claim 17 wherein the removable module is housed within a PC card.

19. The system of claim 1 wherein the short-range transceiver is a removable short-range transceiver module.

20. The system of claim 19 wherein the short-range transceiver module is housed within a PC card.

21. The system of claim 13 wherein the voice transceiver and the short-range transceiver are housed within a removable module.

22. The system of claim 21 wherein the removable module is a PC card.

23. The system of claim 13 wherein the short-range transceiver is housed within a removable module and a voice transceiver is electrically connected to the removable module.

24. The system of claim 1 wherein the handsfree voice communications unit includes a short-range transceiver.

25. A method of voice communication comprising:
transceiving voice sound information between a handsfree
voice communication unit and a computer over a short-
range first communications channel;
transceiving voice sound information between the computer and
a remote location over a second communications channel.
26. The method of claim 25 further comprising processing
voice sound information.
27. The method of claim 25 further comprising transducing
voice sound information at the handsfree voice communication
unit.
28. The method of claim 26 wherein the step of transducing
includes transducing a bone conduction signal.
29. The method of claim 25 further comprising identifying
the handsfree voice communication unit.
30. The method of claim 25 further comprising comparing the
voice sound information to voice sound information from a
known source for security purposes.
31. A method of voice communication comprising:
transducing a bone conduction signal at an earpiece;
sending the bone conduction signal to a computer;
creating a voice sound signal at least partially based on the
bone conduction signal at the computer;
transmitting the voice sound signal over a voice
communications channel.

4002525-5-0002

32. The method of claim 31 further comprising transducing an air conduction signal and wherein the voice sound signal is at least partially based on the air conduction signal.

33. The method of claim 32 wherein the air conduction signal is transduced at an earpiece.

34. The method of claim 32 wherein the air conduction signal is transduced at the computer.

35. The method of claim 33 further comprising transducing a second air conduction signal at the computer wherein the voice sound signal is at least partially based on the second air conduction signal.

36. The system of claim 1 wherein the voice transceiver is adapted for cellular communications.

37. The system of claim 1 wherein the voice transceiver is adapted for satellite communications.

38. A removable card for voice communications over multiple channels comprising:

a body adapted to be removeably inserted into a slot;
a short-range transceiver disposed within the body and
adapted for two-way voice communications.

39. The removable card of claim 38 further comprising a cardbus connector attached to the body for interfacing the card to a computer.

40. The removable card of claim 38 further comprising a voice transceiver disposed within the body and adapted for communications over a voice communication network.

41. The removable card of claim 38 further comprising a port for electrically connecting an external voice transceiver to the removable card.

42. A communications system comprising:

a computer;

a short-range transceiver operatively connected to the computer;

a voice transceiver operatively connected to the computer; and

a handsfree voice communications device having an air conduction sensor and a bone conduction sensor in communication with the short-range transceiver.

43. A method of providing secure access to a computer comprising:

receiving an identifier from a handsfree voice communication unit at the computer over a short-range first communications channel;

granting access based on the identifier;

transceiving voice sound information between the handsfree voice communication unit and the computer over the short-range first communications channel; and

transceiving voice sound information between the computer and a remote location over a second communications channel.

44. The method of claim 43 wherein the identifier is a voice sample.

45. The method of claim 43 wherein the identifier is an identifier associated with the handsfree voice communications channel.

46. The method of claim 45 wherein the identifier is a unique identifier.

47. The method of claim 45 wherein the identifier is an IP address.

48. The method of claim 43 further comprising the step of associating a first spatial position with the computer.

49. The method of claim 48 further comprising the step of associating a second spatial position of the voice communications unit based on the first spatial position associated with the computer.

50. A system comprising:
a computer having a housing;
a short-range transceiver operatively connected to the computer;
a voice transceiver operatively connected to the computer;
a handsfree voice communications device unit in communication with the short-range transceiver;
the computer adapted to receive voice sound information from the short-range transceiver;
the computer adapted to receive voice sound information from the voice transceiver;
the computer adapted to send voice sound information to the short-range transceiver; and
the computer adapted to send voice sound information to the voice transceiver.